

Release notes for ENDF/B Development n-034\_Se.077  
evaluation

**ENDF**  
**B-VII**.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section  
*MAT=3434, MF= 1, MT=451 (1): Parsing stopped*

```
ERROR(S) FOUND IN MAT=3434, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER    241 TO    328
```

- checkr Errors:

1. A variable is outside the allowed ENDF range  
*MAT=3434, MF= 1, MT=451 (0): Variable range*

```
ERROR(S) FOUND IN MAT=3434, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER    241
```

2. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 2, MT=151 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=3434, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER    330
```

3. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 1 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER    533
```

4. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 2 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER    567
```

5. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 4 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER    601
```

6. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 16 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER    624
```

7. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 17 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 17  
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 636

8. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 22 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 22  
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 642

9. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 28 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 28  
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 655

10. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 32 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 32  
SECTION 3/ 32 NOT IN DIRECTORY RECORD NUMBER 665

11. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 51 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 51  
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 672

12. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 52 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 52  
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 695

13. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 53 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 53  
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 717

14. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 54 (0): Directory (b)*

ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 54  
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 739

15. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 55 (0): Directory (b)*

- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 55 | RECORD NUMBER | 760 |
| SECTION 3/ 55 NOT IN DIRECTORY            |               |     |
16. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 56 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 56 | RECORD NUMBER | 780 |
| SECTION 3/ 56 NOT IN DIRECTORY            |               |     |
17. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 57 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 57 | RECORD NUMBER | 800 |
| SECTION 3/ 57 NOT IN DIRECTORY            |               |     |
18. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 58 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 58 | RECORD NUMBER | 819 |
| SECTION 3/ 58 NOT IN DIRECTORY            |               |     |
19. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 59 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 59 | RECORD NUMBER | 838 |
| SECTION 3/ 59 NOT IN DIRECTORY            |               |     |
20. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 60 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 60 | RECORD NUMBER | 857 |
| SECTION 3/ 60 NOT IN DIRECTORY            |               |     |
21. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 61 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 61 | RECORD NUMBER | 875 |
| SECTION 3/ 61 NOT IN DIRECTORY            |               |     |
22. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 62 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 62 | RECORD NUMBER | 892 |
| SECTION 3/ 62 NOT IN DIRECTORY            |               |     |
23. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 63 (0): Directory (b)*

- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 63 | RECORD NUMBER | 909 |
| SECTION 3/ 63 NOT IN DIRECTORY            |               |     |
24. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 64 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 64 | RECORD NUMBER | 926 |
| SECTION 3/ 64 NOT IN DIRECTORY            |               |     |
25. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 65 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 65 | RECORD NUMBER | 942 |
| SECTION 3/ 65 NOT IN DIRECTORY            |               |     |
26. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 66 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 66 | RECORD NUMBER | 958 |
| SECTION 3/ 66 NOT IN DIRECTORY            |               |     |
27. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 67 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 67 | RECORD NUMBER | 973 |
| SECTION 3/ 67 NOT IN DIRECTORY            |               |     |
28. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 68 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 68 | RECORD NUMBER | 988 |
| SECTION 3/ 68 NOT IN DIRECTORY            |               |     |
29. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 69 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 69 | RECORD NUMBER | 1002 |
| SECTION 3/ 69 NOT IN DIRECTORY            |               |      |
30. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 70 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 70 | RECORD NUMBER | 1016 |
| SECTION 3/ 70 NOT IN DIRECTORY            |               |      |
31. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 71 (0): Directory (b)*

- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 71 |                    |
|  | SECTION 3/ 71 NOT IN DIRECTORY            | RECORD NUMBER 1030 |
32. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 72 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 72 |                    |
|  | SECTION 3/ 72 NOT IN DIRECTORY            | RECORD NUMBER 1043 |
33. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 73 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 73 |                    |
|  | SECTION 3/ 73 NOT IN DIRECTORY            | RECORD NUMBER 1056 |
34. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 74 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 74 |                    |
|  | SECTION 3/ 74 NOT IN DIRECTORY            | RECORD NUMBER 1069 |
35. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 75 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 75 |                    |
|  | SECTION 3/ 75 NOT IN DIRECTORY            | RECORD NUMBER 1081 |
36. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 76 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 76 |                    |
|  | SECTION 3/ 76 NOT IN DIRECTORY            | RECORD NUMBER 1093 |
37. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 77 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 77 |                    |
|  | SECTION 3/ 77 NOT IN DIRECTORY            | RECORD NUMBER 1105 |
38. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 78 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 78 |                    |
|  | SECTION 3/ 78 NOT IN DIRECTORY            | RECORD NUMBER 1116 |
39. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT= 91 (0): Directory (b)*

- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT= 91 | RECORD NUMBER | 1127 |
| SECTION 3/ 91 NOT IN DIRECTORY            |               |      |
40. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT=102 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT=102 | RECORD NUMBER | 1137 |
| SECTION 3/102 NOT IN DIRECTORY            |               |      |
41. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT=103 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT=103 | RECORD NUMBER | 1164 |
| SECTION 3/103 NOT IN DIRECTORY            |               |      |
42. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT=104 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT=104 | RECORD NUMBER | 1180 |
| SECTION 3/104 NOT IN DIRECTORY            |               |      |
43. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT=105 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT=105 | RECORD NUMBER | 1192 |
| SECTION 3/105 NOT IN DIRECTORY            |               |      |
44. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT=106 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT=106 | RECORD NUMBER | 1203 |
| SECTION 3/106 NOT IN DIRECTORY            |               |      |
45. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT=107 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT=107 | RECORD NUMBER | 1213 |
| SECTION 3/107 NOT IN DIRECTORY            |               |      |
46. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 3, MT=111 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 3, MT=111 | RECORD NUMBER | 1229 |
| SECTION 3/111 NOT IN DIRECTORY            |               |      |
47. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 2 (0): Directory (b)*

- |  |                    |
|--|--------------------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 2 |                    |
| SECTION 4/ 2 NOT IN DIRECTORY            | RECORD NUMBER 1241 |
48. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 16 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 16 |                    |
| SECTION 4/ 16 NOT IN DIRECTORY            | RECORD NUMBER 1457 |
49. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 17 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 17 |                    |
| SECTION 4/ 17 NOT IN DIRECTORY            | RECORD NUMBER 1468 |
50. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 22 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 22 |                    |
| SECTION 4/ 22 NOT IN DIRECTORY            | RECORD NUMBER 1479 |
51. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 28 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 28 |                    |
| SECTION 4/ 28 NOT IN DIRECTORY            | RECORD NUMBER 1490 |
52. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 32 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 32 |                    |
| SECTION 4/ 32 NOT IN DIRECTORY            | RECORD NUMBER 1501 |
53. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 51 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 51 |                    |
| SECTION 4/ 51 NOT IN DIRECTORY            | RECORD NUMBER 1512 |
54. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 52 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 52 |                    |
| SECTION 4/ 52 NOT IN DIRECTORY            | RECORD NUMBER 1537 |
55. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 53 (0): Directory (b)*



- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 53 | RECORD NUMBER | 1562 |
| SECTION 4/ 53 NOT IN DIRECTORY            |               |      |
56. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 54 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 54 | RECORD NUMBER | 1588 |
| SECTION 4/ 54 NOT IN DIRECTORY            |               |      |
57. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 55 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 55 | RECORD NUMBER | 1614 |
| SECTION 4/ 55 NOT IN DIRECTORY            |               |      |
58. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 56 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 56 | RECORD NUMBER | 1639 |
| SECTION 4/ 56 NOT IN DIRECTORY            |               |      |
59. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 57 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 57 | RECORD NUMBER | 1664 |
| SECTION 4/ 57 NOT IN DIRECTORY            |               |      |
60. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 58 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 58 | RECORD NUMBER | 1689 |
| SECTION 4/ 58 NOT IN DIRECTORY            |               |      |
61. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 59 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 59 | RECORD NUMBER | 1714 |
| SECTION 4/ 59 NOT IN DIRECTORY            |               |      |
62. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 60 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 60 | RECORD NUMBER | 1739 |
| SECTION 4/ 60 NOT IN DIRECTORY            |               |      |
63. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 61 (0): Directory (b)*

- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 61 | RECORD NUMBER | 1764 |
| SECTION 4/ 61 NOT IN DIRECTORY            |               |      |
64. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 62 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 62 | RECORD NUMBER | 1789 |
| SECTION 4/ 62 NOT IN DIRECTORY            |               |      |
65. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 63 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 63 | RECORD NUMBER | 1814 |
| SECTION 4/ 63 NOT IN DIRECTORY            |               |      |
66. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 64 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 64 | RECORD NUMBER | 1839 |
| SECTION 4/ 64 NOT IN DIRECTORY            |               |      |
67. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 65 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 65 | RECORD NUMBER | 1864 |
| SECTION 4/ 65 NOT IN DIRECTORY            |               |      |
68. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 66 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 66 | RECORD NUMBER | 1889 |
| SECTION 4/ 66 NOT IN DIRECTORY            |               |      |
69. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 67 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 67 | RECORD NUMBER | 1914 |
| SECTION 4/ 67 NOT IN DIRECTORY            |               |      |
70. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 68 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 68 | RECORD NUMBER | 1939 |
| SECTION 4/ 68 NOT IN DIRECTORY            |               |      |
71. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 69 (0): Directory (b)*

- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 69 | RECORD NUMBER | 1962 |
| SECTION 4/ 69 NOT IN DIRECTORY            |               |      |
72. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 70 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 70 | RECORD NUMBER | 1985 |
| SECTION 4/ 70 NOT IN DIRECTORY            |               |      |
73. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 71 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 71 | RECORD NUMBER | 2008 |
| SECTION 4/ 71 NOT IN DIRECTORY            |               |      |
74. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 72 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 72 | RECORD NUMBER | 2031 |
| SECTION 4/ 72 NOT IN DIRECTORY            |               |      |
75. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 73 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 73 | RECORD NUMBER | 2054 |
| SECTION 4/ 73 NOT IN DIRECTORY            |               |      |
76. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 74 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 74 | RECORD NUMBER | 2077 |
| SECTION 4/ 74 NOT IN DIRECTORY            |               |      |
77. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 75 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 75 | RECORD NUMBER | 2100 |
| SECTION 4/ 75 NOT IN DIRECTORY            |               |      |
78. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 76 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 76 | RECORD NUMBER | 2123 |
| SECTION 4/ 76 NOT IN DIRECTORY            |               |      |
79. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 77 (0): Directory (b)*

- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 77 | RECORD NUMBER | 2146 |
| SECTION 4/ 77 NOT IN DIRECTORY            |               |      |
80. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 78 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 78 | RECORD NUMBER | 2169 |
| SECTION 4/ 78 NOT IN DIRECTORY            |               |      |
81. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 4, MT= 91 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 4, MT= 91 | RECORD NUMBER | 2192 |
| SECTION 4/ 91 NOT IN DIRECTORY            |               |      |
82. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 5, MT= 16 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 5, MT= 16 | RECORD NUMBER | 2216 |
| SECTION 5/ 16 NOT IN DIRECTORY            |               |      |
83. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 5, MT= 17 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 5, MT= 17 | RECORD NUMBER | 2280 |
| SECTION 5/ 17 NOT IN DIRECTORY            |               |      |
84. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 5, MT= 22 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 5, MT= 22 | RECORD NUMBER | 2295 |
| SECTION 5/ 22 NOT IN DIRECTORY            |               |      |
85. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 5, MT= 28 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 5, MT= 28 | RECORD NUMBER | 2440 |
| SECTION 5/ 28 NOT IN DIRECTORY            |               |      |
86. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 5, MT= 32 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3434, MF= 5, MT= 32 | RECORD NUMBER | 2517 |
| SECTION 5/ 32 NOT IN DIRECTORY            |               |      |
87. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=3434, MF= 5, MT= 91 (0): Directory (b)*

- recent Warnings:

1. Statistical weight of certain L values were incorrect  
*0: RRR goof (a)*

```
Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)
=====
Retrieval Criteria----- MAT
File 2 Minimum Cross Section- 1.0000E-10 (Standard Option)
Reactions with No Background- Output (Resonance Contribution)
... [456 more lines]
```

- fudge-4.0 Warnings:

1. Cross section does not match sum of linked reaction cross sections  
*crossSectionSum label 0: total (Error # 0): CS Sum.*

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.28%

2. Cross section does not match sum of linked reaction cross sections  
*crossSectionSum label 1: (z,n) (Error # 0): CS Sum.*

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.11%

- fudge-4.0 Errors:

1. The spin statistical weights are off, indicating missing channels  
*resonances / resolved / MultiLevel\_BreitWigner (Error # 0): badSpinStatisticalWeights*

WARNING: The spin statistical weights for L=1 sums to 2.25, but should sum to 3.0. You have too few channels for r

2. Calculated and tabulated Q values disagree.  
*reaction label 30: n[multiplicity:'2'] + Se76 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -7451800.385665894 eV vs -7422990. eV!

3. Calculated and tabulated Q values disagree.  
*reaction label 31: n[multiplicity:'3'] + Se75 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -18606149.79852295 eV vs -1.85893e7 eV!

4. Calculated and tabulated Q values disagree.  
*reaction label 32: n + H1 + As76 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -9631999.769790649 eV vs -9609130. eV!

5. Calculated and tabulated Q values disagree.  
*reaction label 33: n + H2 + As75 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -14735844.54159546 eV vs -1.46318e7 eV!

6. Calculated and tabulated Q values disagree.  
*reaction label 34: Se78 + gamma (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 10464871.40620422 eV vs 1.0497e7 eV!

7. Calculated and tabulated Q values disagree.  
*reaction label 35:  $n + \text{He4} + \text{Ge73}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -5759915.089111328 eV vs -5734480. eV!

8. Calculated and tabulated Q values disagree.  
*reaction label 36:  $\text{H1[multiplicity:'2']} + \text{Ge76}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -7926110.317230225 eV vs -7903770. eV!

9. Calculated and tabulated Q values disagree.  
*reaction label 37:  $\text{H1} + \text{As77-s}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 66390.91381835938 eV vs 92060. eV!

10. Calculated and tabulated Q values disagree.  
*reaction label 38:  $\text{H2} + \text{As76-s}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -7407433.66885376 eV vs -7299010. eV!

11. Calculated and tabulated Q values disagree.  
*reaction label 39:  $\text{H3} + \text{As75-s}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -8478611.600982666 eV vs -8446660. eV!

12. Calculated and tabulated Q values disagree.  
*reaction label 40:  $\text{He3} + \text{Ge75-s}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -9636003.63861084 eV vs -9605820. eV!

13. Calculated and tabulated Q values disagree.  
*reaction label 41:  $\text{He4} + \text{Ge74-s}$  (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 4436306.067459106 eV vs 4.4702e6 eV!

- njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (0): GROUPT/conver (0)*

---message from conver---cannot do complete particle production for mt= 16  
only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (1): GROUPT/conver (0)*

---message from conver---cannot do complete particle production for mt= 17  
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 22  
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 28  
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 32  
only mf4/mf5 provided

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (5): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 91  
only mf4/mf5 provided